

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Donald M. Morgan and Greg A. Blodgett Attorney Docket No.: 501130.02
Filed : January 7, 2004
Title : METHOD AND SYSTEM FOR LOW POWER REFRESH OF DYNAMIC
RANDOM ACCESS MEMORIES

INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 10/122,943, filed April 11, 2002. The references listed on the attached Form PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in this prior application and, therefore, are not required to be provided in this application. If the Examiner wishes, copies will be provided upon request. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/039,815, describing and claiming subject matter that is similar to the subject matter of this application, was filed on October 26, 2001. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/119,550, describing and claiming subject matter that is similar to the subject matter of this application, was filed on April 9, 2002. This related application, as well as

any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/043,680, describing and claiming subject matter that is similar to the subject matter of this application, was filed on January 10, 2002. This related application, which is a divisional of Application No. 09/803,365, filed March 8, 2001, issued as U.S. Patent No. 6,449,203, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

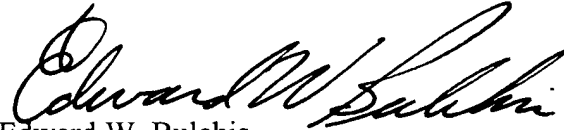
Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/043,682, describing and claiming subject matter that is similar to the subject matter of this application, was filed on January 10, 2002. This related application, which is a divisional of Application No. 09/803,365, filed March 8, 2001, issued as U.S. Patent No. 6,449,203, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/410,575, describing and claiming subject matter that is similar to the subject matter of this application, was filed on April 8, 2003. This related application, which is a continuation of Application No. 10/043,462, filed January 10, 2002, issued as U.S. Patent No. 6,556,497, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP

A handwritten signature in black ink, appearing to read "Edward W. Bulchis". The signature is fluid and cursive, with a large initial "E" and "B".

Edward W. Bulchis

Registration No. 26,847

Enclosure:

Form PTO-1449

Copies of Related Applications (5)

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FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 501130.02	APPLICATION NO. Not yet assigned
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT(S) Donald M. Morgan et al.	
		FILING DATE Concurrently herewith	GROUP ART UNIT Not yet assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,661,929	04/28/87	Aoki et al.	365	189	
	AB	4,961,167	10/02/90	Kumanoya et al.	365	189.09	
	AC	5,134,699	07/28/92	Aria et al.	395	425	
	AD	5,148,546	09/15/92	Blodgett	713	320	
	AE	5,229,647	07/20/93	Gnadinger	257	785	
	AF	5,321,662	06/14/94	Ogawa	365	191	
	AG	5,381,368	01/10/95	Morgan et al.	365	189.01	
	AH	5,414,861	05/09/95	Horning	395	750	
	AI	5,475,645	12/12/95	Wada	365	222	
	AJ	5,630,091	05/13/97	Lin et al.	395	437	
	AK	5,729,497	03/17/98	Pawlowski	365	200	
	AL	5,781,483	07/14/98	Shore	365	200	
	AM	5,828,619	10/27/98	Hirano et al.	365	222	
	AN	5,953,266	09/14/99	Shore	365	200	
	AO	5,963,473	10/05/99	Norman	365	185.02	
	AP	5,966,334	10/12/99	Shore	365	200	
	AQ	5,974,573	10/26/99	Martin	714	48	
	AR	5,978,952	11/02/99	Hayek et al.	714	764	
	AS	5,982,697	11/09/99	Williams et al.	365	230.03	
	AT	6,023,432	02/08/00	Shore	365	200	
	AU	6,044,029	03/28/00	Shore	365	200	
	AV	6,101,614	08/08/00	Gonzales et al.	714	6	
	AW	6,104,641	08/15/00	Itou	365	149	
	AX	6,134,167	10/17/00	Atkinson	365	222	
	AY	6,154,851	11/28/00	Sher et al.	714	5	
	AZ	6,195,717 B1	02/27/01	Henderson et al.	710	101	
	BA	6,216,246 B1	04/10/01	Shau	714	763	

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 501130.02		APPLICATION NO. Not yet assigned	
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				FILING DATE Concurrently herewith		GROUP ART UNIT Not yet assigned	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
BB	6,246,619 B1	06/12/01	Ematrudo et al.	365	201		
BC	6,343,045 B2	01/29/02	Shau	365	227		
BD	6,356,500 B1	03/12/02	Cloud et al.	365	226		
BE	6,381,707 B1	04/30/02	Larsen et al.	714	8		
BF	6,414,894 B1	07/02/02	Ooishi et al.	365	222		
BG	6,438,057 B1	08/20/02	Ruckerbauer	365	222		
BH	6,438,068 B1	08/20/02	Roohparvar	365	238.5		
BI	6,449,203 B1	09/10/02	Cowles et al.	365	222		
BJ	6,452,859 B1	09/17/02	Shimano et al.	365	230.06		
BK	6,510,528 B1	01/21/03	Freeman et al.	714	6		
BL	6,519,201 B1	02/11/03	Cowles et al.	365	222		
BM	6,532,180 B1	03/11/03	Ryan et al.	365	195		
BN	6,549,479 B2	04/15/03	Blodgett	365	222		
BO	6,556,497 B2	04/29/03	Cowles et al.	365	222		
BP	2002/0126558 A1	09/12/02	Cowles et al.	365	222		
BQ	2002/0126559 A1	09/12/02	Cowles et al.	365	222		
BR	2002/0162076 A1	10/31/02	Talagala et al.	714	819		
BS	2003/0067830 A1	04/10/03	Leung et al.	365	222		
BT	2003/0081492 A1	05/01/03	Farrell et al.	365	238.5		
BU	2003/0097608 A1	05/22/03	Rodeheffer et al.	714	7		

FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	
BV	96/28225	09/19/96	WO (English Abstract)				
BW							
BX							

EXAMINER	DATE CONSIDERED
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OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>					
	BY	Stallings, William, "Computer Organization & Architecture: Designing for Performance," pp. 103-116.			
	BZ				
EXAMINER				DATE CONSIDERED	
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